

Table IX. Starting alignments employed in model building

5

1aba_: ----MFKVYGYDSNIHKCGPCDNAKRL----TVKKQPFEFINI-
MPEKGVFDDEKIAE--LLTKLGRDTQIG

lego_: MQTV---IFGRS----GCPYCVRAKDLAEKLSN-
ERDDFQYQYVDIRAEGI-TKEDLQQKA-----GKPVE--

10

1aba_: LTMPQVFAPDGSHIGGFDQLREYFK-----

lego_: -TVPQIFV-DQQHIGGYTDFAAWVKENLDA

1bbhA: --AGLSPEEQIETR---QAGYEFMG---
WNMGKIKANLEGEYNAAQVEAAANVIAAIAANS GMGALYGP-GTD

15

2ccyA: QS---
KPEDLLKLRQGLMQTLKSQWVPIAGFAAGKADLPADAAQRAENMAMVAK
LAPIGWAKGTEAL-PNG--

1bbhA: KNVGDVKTRVKPEFFQN--
MEDVGKIAREFVGAANTLAEVAATGEAEAVKTAFGDVGAACKSCHEKYR
AK

20

2ccyA: -----ETKPEAFGSKS-AEFLEGWKALATESTKLAAAKAGP-
DALKAQAAATGKVCKACHEEFKQD

1cewI: -----GAPVPVDE-NDEGLQRALQFAM-AEYNRASNDKYS-
SRVVRVISA-----KRQLVSGIK-YILQV--

1molA: GEWEI---IDIGPF----
TQNLGKFAVDEENKIGQYGRITFNKVIRPCMCKKTIYENERE----
IKGYEYQLYV

25

1cewI: EIGRTTCPKSSGDLQSCEF----HDEPEMAKYTTCTFVVYSIP--
WLNQIKLLESKCQ--

1molA: Y-----ASDKLFRADISEY-----KTRGRKLLRFNGPV-----PPP

30

5	<p>1hom_: MRKRGRQTYTRYQTLEL---EKEFHFNRYLTRRRR----- IEIAHALC-----L</p> <p>11fb_: -----RFKWGPAS-QQI-LFQAYERQKNPSKEERETLVE- ECNRAECZQRGVSPSQAQGLGSNLV</p> <p>1hom_: TERQIKIWFQNRRMKWKKENKTKGEPG</p> <p>11fb_: TEVRVYNWFANR---RKEEAFRH----</p>
10	<p>2pcy_: ---IDVLLGADDGSLAFVPSEFSISPGEKIVEK----- NNAGFPHNIVFDEDSIPSGVDASKISMSE</p> <p>2azaA: AQC-EATIESND-AMQYDLKEMVVDKSCK- QFTVHLKHVGMKMAKSAMG--HNWVLTKEADKEGVATDGMNAGL</p> <p>2pcy_: EDLLNA-----KGETFEVAL----SNKGEYSFY- CSPHQGAGMVGKVTVN--</p>
15	<p>2azaA: AQDYVKAGDTRVIAHTKVIGGGESDSVTFDVSKLTPGEAYAYFCSFPGHWA MMKGTCLKL-SN</p> <p>1stfl: -MMSGAPSATQPATAETQ-HIADQV-RSQLEE-KYNKK-FPV- FKAVSFK----SQVVAGTNYFIKVHVGDE</p>
20	<p>1molA: G----- EWEIIDIGPFTQNLGKFAVDEENKIGQYGRITFNKVIRPCMKKTIYENEREIK G-YEYQLYVYAS</p> <p>1stfl: DfVHLRVFQSLPHENKPLTLSNYQTNKAKHDELTfYf</p> <p>1molA: DKLFRADI-SEDYKTRGRKLLRF---NGPVPPP---</p>
25	<p>1tlk_: VAEEKPHVKPYFTKTLMD-----VVEGSAARFDCKVEGY-----P---- -DPEVMWFKDDNPVKES</p> <p>2rhe_: -----ESVLTQPPSASGT-- PGQRVTISCTGSATDIGSNSVIWYQQVPGKAPKLLIYNDLLPSG</p> <p>1tlk_: -RHFQIDYDEEGNCSLTISEVCGDDDAKYTCKAVNSLGEAT----- CTAELLVETM--</p>
30	<p>2rhe_: VSDRFSASKSGTSASLAISGLESEDEADYYCAAWNDSLDEPGFGGG-- -TKLTVLGQPK-</p>

5 **256bA:** --ADLEDNMETLNDNLKV-----
IEKADNAAQVKDALTKMRAAALDAQKAT-PPKLEDKSPD-S---

1bbhA:
AGLSPEEQIETRQAGYEFMGWNMGKIKANLEGEYNAAQVEAAANVIAAIA
NSGMGALYGP GTDKNVGDV KTRV

10 **256bA_:** -PEMKDFRHGFDIL-----
VGQIDDALKLANEGKVKEAQAAAEQLKTTRNAYHQKYR--

1bbhA: KPEF--
FQNMEDVGKIAREFVGAANTLAEVAATGEAEAVKTAFGDVGAACKSCHEK
YRAK

15 **2azaA:**
AQCEATIESNDAMQYDLKEMVVDKSCQFTVHLKHVGKMAKSAM-----
GHNWVLTKEADKEG-----VATDG

1paz_: -----ENIEVHM--LNKGAEGAMVFEP A---YI---
KANPGDTVTFIPVDKG

2azaA: MNAGLAQDYVKAGDTRV-
IAHTKVIGGGESDSVTFDVS KLTPGEAYAYFCS-FPGHWA--MMKGTLKLSN-
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20 **1paz_:** HNVESIKDMIPEGA EKFK-----SKINENYVLT V TQ--PG-AYLVKCTP-
--HYAMGMI-ALIAVG DSPA

2azaA: -----

1paz_: NLDQIVSAKKPKIVQERLEKVIA

25 **2sarA:** -----DVSGTVCLSALPPEATDTLNLIAS-DGPF PYSQDGV-----
VFQNRRESVLPTQSYGY YHEY

9rnt_: ACDYT CGSN CYSS-----SDVSTAQAAGYKL---HEDGETVGSNSY-
PHKYNNYEGFDFSVSSPYY

2sarA: TV-----ITPGARTRGTRRIICGEATQEDYYTGDHYATFS---LIDQTC-
-

30 **9rnt_:** EWPILSSGDVY--SGGSPGADR VVFN---ENNQLAGVITH TGASGNN--
FVECT-